

## Federal Communications Commission

§ 95.631

Channel No.	Center frequency (MHz)	Channel No.	Center frequency (MHz)
162	216.5075	234	216.8675
163	216.5125	235	216.8725
164	216.5175	236	216.8775
165	216.5225	237	216.8825
166	216.5275	238	216.8875
167	216.5325	239	216.8925
168	216.5375	240	216.8975
169	216.5425	241	216.9025
170	216.5475	242	216.9075
171	216.5525	243	216.9125
172	216.5575	244	216.9175
173	216.5625	245	216.9225
174	216.5675	246	216.9275
175	216.5725	247	216.9325
176	216.5775	248	216.9375
177	216.5825	249	216.9425
178	216.5875	250	216.9475
179	216.5925	251	216.9525
180	216.5975	252	216.9575
181	216.6025	253	216.9625
182	216.6075	254	216.9675
183	216.6125	255	216.9725
184	216.6175	256	216.9775
185	216.6225	257	216.9825
186	216.6275	258	216.9875
187	216.6325	259	216.9925
188	216.6375	260	216.9975
189	216.6425		
190	216.6475		
191	216.6525		
192	216.6575		
193	216.6625		
194	216.6675		
195	216.6725		
196	216.6775		
197	216.6825		
198	216.6875		
199	216.6925		
200	216.6975		
201	216.7025		
202	216.7075		
203	216.7125		
204	216.7175		
205	216.7225		
206	216.7275		
207	216.7325		
208	216.7375		
209	216.7425		
210	216.7475		
211	216.7525		
212	216.7575		
213	216.7625		
214	216.7675		
215	216.7725		
216	216.7775		
217	216.7825		
218	216.7875		
219	216.7925		
220	216.7975		
221	216.8025		
222	216.8075		
223	216.8125		
224	216.8175		
225	216.8225		
226	216.8275		
227	216.8325		
228	216.8375		
229	216.8425		
230	216.8475		
231	216.8525		
232	216.8575		
233	216.8625		

(2) LPRS transmitters operating on narrowband channels must be maintained within a frequency stability of 1.5 parts per million.

[61 FR 46567, Sept. 4, 1996]

#### § 95.630 WMTS Transmitter frequencies.

WMTS transmitters may operate in the frequency bands specified as follows:

608–614 MHz  
1395–1400 MHz  
1427–1432 MHz

[67 FR 41862, June 20, 2002]

#### § 95.631 Emission types.

(a) A GMRS transmitter must transmit only emission types A1D, F1D, G1D, H1D, J1D, R1D, A3E, F3E, G3E, H3E, J3E or R3E. A non-voice emission is limited to selective calling or tone-operated squelch tones to establish or continue voice communications. See § 95.181 (g) and (h).

(b) An R/C transmitter may transmit any appropriate non-voice emission which meets the emission limitations of § 95.633.

(c) A CB transmitter may transmit only emission types A1D, H1D, J1D, R1D, A3E, H3E, J3E, R3E. A non-voice emission is limited to selective calling

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or tone-operated squelch tones to establish or continue voice communications. See § 95.412 (b) and (c).

(d) An FRS unit may transmit only emission type F3E. A non-voice emission is limited to selective calling or tone-operated squelch tones to establish or continue voice communications.

(e) No GMRS or CB transmitter shall employ a digital modulation or emission.

(f) No GMRS, CB or R/C transmitter shall transmit non-voice data.

(g) An LPRS station may transmit any emission type appropriate for communications in this service. Two-way voice communications, however, are prohibited.

(h) A MICS station may transmit any emission type appropriate for communications in this service. Voice communications, however, are prohibited.

(i) A WMTS station may transmit any emission type appropriate for communications in this service, except for video and voice. Waveforms such as electrocardiograms (ECGs) are not considered video.

(j) A MURS station may transmit any emission type as specified in § 90.207 of this chapter.

[53 FR 36789, Sept. 22, 1988. Redesignated and amended at 61 FR 28769, June 6, 1996, and further redesignated and amended at 61 FR 46567, 46568, Sept. 4, 1996; 64 FR 69930, Dec. 15, 1999; 65 FR 44008, July 17, 2000; 65 FR 53190, Sept. 1, 2000; 65 FR 60877, Oct. 13, 2000]

**§ 95.632 MURS transmitter frequencies.**

(a) The MURS transmitter channel frequencies are 151.820 MHz, 151.880 MHz, 151.940 MHz, 154.570 MHz, 154.600 MHz.

(b) The authorized bandwidth is 11.25 kHz on frequencies 151.820 MHz, 151.880 MHz and 151.940 MHz. The authorized bandwidth is 12.5 kHz on frequencies 154.570 and 154.600 kHz.

(c) MURS transmitters must maintain a frequency stability of 5.0 ppm, or 2.0 ppm if designed to operate with a 6.25 kHz bandwidth.

[65 FR 60877, Oct. 13, 2000]

**§ 95.633 Emission bandwidth.**

(a) The authorized bandwidth (maximum permissible bandwidth of a transmission) for emission type H1D,

J1D, R1D, H3E, J3E or R3E is 4 kHz. The authorized bandwidth for emission type A1D or A3E is 8 kHz. The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 kHz.

(b) The authorized bandwidth for any emission type transmitted by an R/C transmitter is 8 kHz.

(c) The authorized bandwidth for emission type F3E transmitted by a FRS unit is 12.5 kHz.

(d) For transmitters in the LPRS:

(1) The authorized bandwidth for narrowband frequencies is 4 kHz and the channel bandwidth is 5 kHz

(2) The channel bandwidth for standard band frequencies is 25 kHz.

(3) The channel bandwidth for extra band frequencies is 50 kHz.

(4) AMTS stations may use the 216.750–217.000 MHz band as a single 250 kHz channel so long as the signal is attenuated as specified in § 95.635(c).

(e) For transmitters in the MICS:

(1) The maximum authorized emission bandwidth is 300 kHz.

(2) Lesser authorized emission bandwidths may be employed, provided that the unwanted emissions are attenuated as provided in § 95.635 and that the power radiated in any 300 kHz bandwidth does not exceed 25 microwatts EIRP. See §§ 95.605 and 95.639(g) regarding power measurement procedures.

(3) Emission bandwidth will be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 20 dB down relative to the maximum level of the modulated carrier. Compliance with the emission bandwidth limit is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

(f) The authorized bandwidth for any emission type transmitted by a MURS transmitter is specified in § 90.209 of this chapter.

[53 FR 36789, Sept. 22, 1988. Redesignated and amended at 61 FR 28769, June 6, 1996, and further redesignated and amended at 61 FR 46567, 46568, Sept. 4, 1996; 64 FR 69930, Dec. 15, 1999; 65 FR 60878, Oct. 13, 2000]